

ABSTRACT

A system and method for interference reduction in a spread spectrum receiver including a rake receiver having a plurality of fingers for processing a plurality of data signals and an associated plurality of pilot signals is disclosed herein. The method includes generating a plurality of intra-finger interference cancellation signals using the plurality of pilot signals. In this regard each of the plurality of intra-finger interference cancellation signals are associated with one of the plurality of fingers. Ones of the plurality of intra-finger interference cancellation signals are weighted so as to generate a set of weighted intra-finger interference cancellation signals. The method further includes synthesizing at least one inter-finger interference cancellation signal in accordance with the set of weighted intra-finger cancellation signals. At least one inter-finger cancellation signal may then be subtracted from a corresponding one of the plurality of data signals.

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